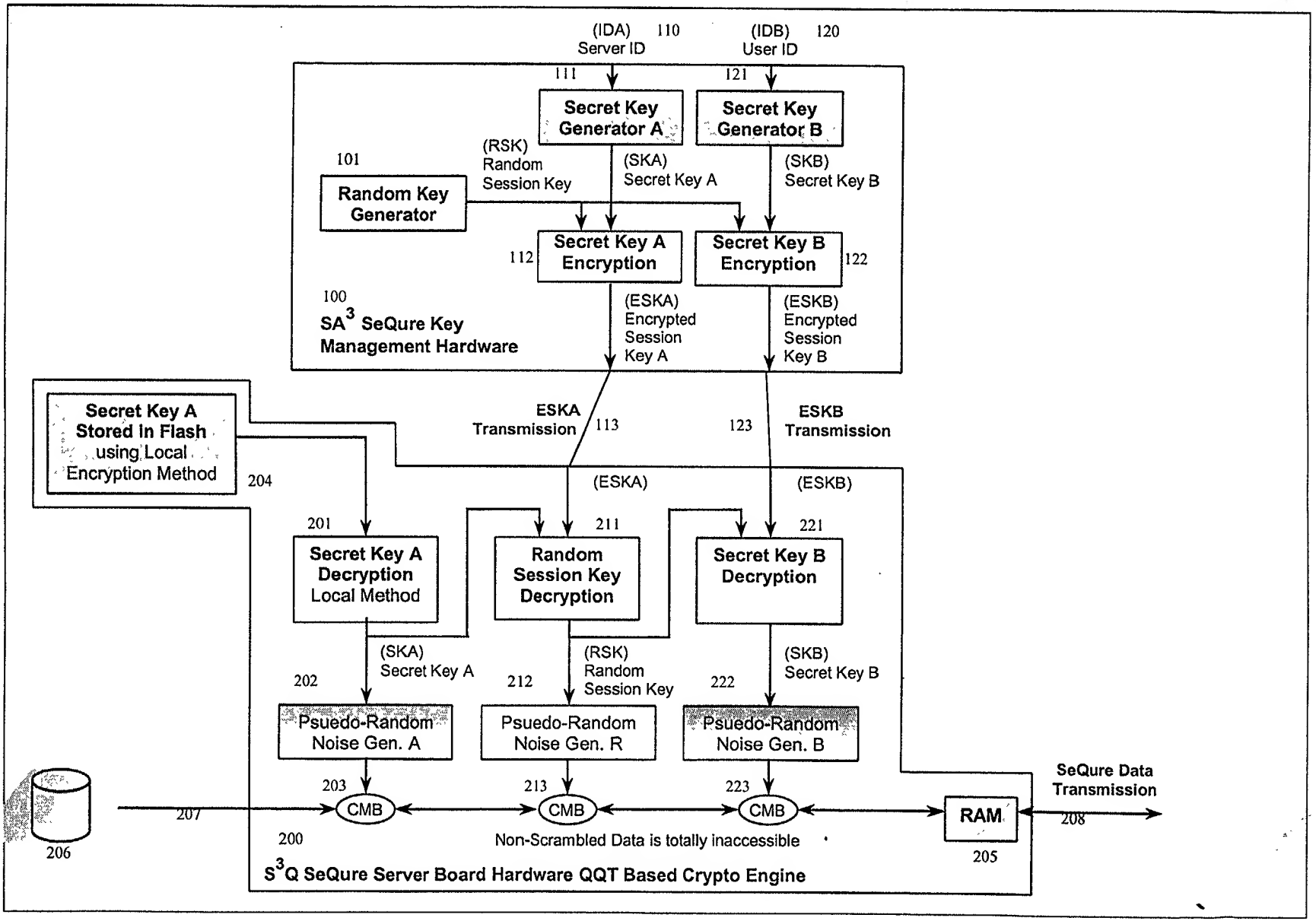
Fig. 1


(IDA) 110
Server ID
(IDB) 120
User ID
111
121
Secret Key Generator A
Secret Key Generator B
(RSK)
Random
Session Key
(SKA)
Secret Key A
(SKB)
Secret Key B
101
Random Key Generator
112
Secret Key A Encryption
Secret Key B Encryption
122
100
SA3 SeQure Key Management Hardware
(ESKA)
Encrypted
Session
Key A
(ESKB)
Encrypted
Session
Key B
Secret Key A Stored in Flash using Local Encryption Method
204
ESKA Transmission
113
123
ESKB Transmission
(ESKA)
(ESKB)
201
211
221
Secret Key A Decryption Local Method
Random Session Key Decryption
Secret Key B Decryption
(SKA)
Secret Key A
(RSK)
Random
Session Key
(SKB)
Secret Key B
202
212
222
Psuedo-Random Noise Gen. A
Psuedo-Random Noise Gen. R
Psuedo-Random Noise Gen. B
203
213
223
CMB
CMB
CMB
RAM
SeQure Data Transmission
208
207
206
200
Non-Scrambled Data is totally inaccessible
205
S3Q SeQure Server Board Hardware QQT Based Crypto Engine